



Freshman Year

Freshman—First Semester (Fall)

___	___	POLS 2306	Intro. Texas Politics	3
___	___	ENGL 1301	Grammar & Composition I	3
___	___	MATH 2413	Calculus I	4
___	___	CHEM 1311	General Chemistry I	3
___	___	CHEM 1111	General Chemistry I Laboratory	1
___	___	ENGR 1200	Engineering Methods (with lab)	2
Semester Credit Hours				16

Freshman—Second Semester (Spring)

___	___	TECH 1303	Engineering Graphics	3
___	___	ENGL 1302	Grammar & Composition II	3
___	___	MATH 2414	Calculus II	4
___	___	PHYS 2325	University Physics I	3
___	___	PHYS 2125	University Physics I Laboratory	1
___	___	()	Visual & Performing Arts	3
Semester Credit Hours				17

Sophomore Year

Sophomore—First Semester (Fall)

___	___	CENG 2336	Geomatics	3
___	___	POLS 2305	Introduction to American Government	3
___	___	ENGR 2301	Engineering Mechanics – Statics	3
___	___	MATH 3404	Multivariate Calculus	4
___	___	PHYS 2326	University Physics II	3
___	___	PHYS 2126	University Physics II Laboratory	1
Semester Credit Hours				17

Sophomore— Second Semester (Spring)

___	___	CENG 2353	Civil Engineering Measurement	3
___	___	MENG 3306	Mechanics of Materials	3
___	___	MATH 3305	Differential Equations	3
___	___	ENGR 2302	Engineering Mechanics–Dynamics	3
___	___	ECON 2301/2	Macro/Microeconomics	3
___	___	PHIL 2306	Introduction to Ethics	3
Semester Credit Hours				18

Junior Year

Junior—First Semester (Fall)

___	___	CENG 3434	Civil Engr. Materials, Codes & Specs	4
___	___	MENG 3310	Fluid Mechanics	3
___	___	ENGR 3301	Probability & Statistics for Engineers	3
___	___	CENG 4339	CE Construction Management	3
___	___	()	Additional Science Elective	3
Semester Credit Hours				16

Junior—Second Semester (Spring)

___	___	CENG 3361	Applied Engineering Hydrology	3
___	___	CENG 3351	Transportation Engr. Systems	3
___	___	CENG 3371	Intro to Environmental Engineering	3
___	___	CENG 3336	Soil Mechanics	3
___	___	CENG 3325	Structural Analysis	3
Semester Credit Hours				15

Senior Year

Senior—First Semester (Fall)

___	___	CENG 4351	Traffic Eng: Operations & Control (Lab)	3
___	___	CENG 4317	Structural Steel Design	3
___	___	CENG 4371	Environmental Engineering Design	3
___	___	CENG 4115	Senior Design I	1
___	___	HIST 1301	United States History I	3
___	___	ENGR 4109	Senior Seminar	1
Semester Credit Hours				14

Senior—Second Semester (Spring)

___	___	CENG 4341	Ldship,Business,Pub Pol,Asset Mg	3
___	___	CENG 4315	Senior Design II	3
___	___	HIST 1302	United States History II	3
___	___	()	Technical Elective	3
___	___	()	World/European Literature	3
Semester Credit Hours				15

Total Program Credit Hours: 128



Construction Engineering

Course	Hrs
___ ___ CENG 4399 CE Independent Study	3

Structural Engineering

Course	Hrs
___ ___ CENG 4311 Reinforced Concrete Design	3
___ ___ CENG 4314 Adv. Structural Analysis	3
___ ___ CENG 4318 Design Timber Structures	3
___ ___ CENG 4322 Structural Masonry Design	3
___ ___ CENG 4328 Structural Fire Behavior	3

Geotechnical Engineering

Course	Hrs
___ ___ CENG 4381 Foundation Design	3

Transportation Engineering

Course	Hrs
___ ___ CENG 4354 Urban Transportation Planning	3
___ ___ CENG 4355 Transportation Systems Management and Operations	2

Hydrology and Environmental Engineering

Course	Hrs
___ ___ CENG 4330 Water Resources Planning and Management	3

Additional Science Elective Options

Course	Hrs
___ ___ GEOL 3310 Physical Geology and Astronomy	3
___ ___ GEOL 3314 Oceanography and Meteorology	3
___ ___ BIOL 1306/1106 General Biology I	4
___ ___ BIOL 2320/2121 Introduction to Microbiology	4

The faculty strongly recommends that all students complete an independent study as their elective. The areas for independent study are: research, competition, or community service.

Students are advised to take two courses in five sub-disciplines: Construction Management, Environmental, Hydrology, Structural, and Transportation as well as one course in Surveying and Geotechnical Engineering to gain the breath our constituencies are asking for in new Engineers-In-Training.

However, students may gain one additional elective by completing two courses in three of the four CE sub-disciplines: Environmental (CENG 3371 and 4371), Hydrology (MENG 3310 and CENG 3361), Structural (CENG 3325 and 4317), and Transportation (CENG 3351 and 4351) and one in the other. All students will take two courses in construction management (CENG 3434 and CENG 4339).